CALIFORNIA ENERGY COMMISSION
High Efficiency Chiller and Thermal Storage Cooling System
The William and Flora Hewlett Foundation Project Summary

Project Description:

The William and Flora Hewlett Foundation is a charitable organization that supports many social causes, including environmental causes. Because of this, they wanted to develop their new office building to have minimal environmental impacts. They decided to follow the Leadership in Energy and Environmental Design (LEED) guidelines, which is a Green Building Rating System supported by the U.S. Green Buildings Council.

One aspect of LEED compliance included a high efficiency chiller and thermal storage cooling system designed and installed with the help of an Energy Commission grant. The system consists of a high efficiency chiller and six 1,190 ton per hour ice-storage tanks. Ice is made in the tanks at night during the off-peak period and the ice is melted to provide cooling during the noon to 6 p.m. peak period, thereby avoiding operation of the chiller and its pump during that time. The system saves peak kilowatts as well as operating costs by reducing peak demand charges and using lower-priced off-peak electricity at night.

Project Results and Funding Details:

The project will save 70 peak kilowatts.

Project Cost	$255,000
Total Grant Award	$17,500
Kilowatt Load Reduction	70

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